



FORM PTO-1449 (Rev. 4/92) U.S. Department of Commerce Patent and Trademark Office

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.	SERIAL NO.
503.30414C14	07
APPLICANT	32 8
KATO, et al.	S = 6
FILING DATE	GROUP 46

### **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL			DOC	IMENT N	UMBER			DATE	NAME	CLASS_	SUBCLASS	FILING DATE IF APPROPRIATE
SM	3	6	5	2	4	4	4	3 2-72	Lester, et al.			
544	3	9	8	1	7	9	1	9-76	Rosvold	_		·
SIMG	4	2	2	6	8	9	7	10-80	Coleman	_		
Sara	4	3	1	1	4	2	7	1-82	Coad, et al.	1		
Salq	4	3	1	3	8	1	5	2-82	Graves, Jr. et al.	_	_	
SMG	4	4	4	9	8	8	5	5-84	Hertel, et al.	-		
Sm4	4	4	5	7	6	6	1	7-84	Flint, et al.	_	_	
Sma	4	5	3	4	3	1	4	8-85	Ackley	_		
Snc	4	5	6	3	2	4	0	1-86	Shibata, et al.	_		
GMG	4	6	3	4	3	3	1	1-87	Hertel	_		
SMG	4	7	0	5	9	5	1	11-87	Layman, et al.			

#### **FOREIGN PATENT DOCUMENTS**

				DOCU	IMENT N	UMBER			DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
SM5		6	2	8	9	8	8	1	4-87	Japan			x	
SMG	6	2	2	0	7	8	6	6	9-87	Japan			х	
544	<u> </u>		1	3	1	9	7	0	2-89	Japan			х	
SMG			1	3	1	9	7	1	2-89	Japan			х	
SMS			6	3	6	5	8	2	1-89	Japan			x	
SMa		1	1	3	5	o	1	5	5-89	Japan	-	-	x	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Smi	R.P.H. Chang, "Multipurpose plasma reactor for materials research and processing", J. Vac. Sci Technol., Vol. 14, No. 1, Jan./Feb. 1977, pages 278-280.	i <b>.</b>
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**DATE CONSIDERED** 

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U.S. Department of Commerce Patent and Trademark Office

#### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. SERIAL NO. 09/461 432 503.30414C14

**APPLICANT** 

KATO, et al.

FILING DATE December 16, 1999 **GROUP** 

3749

#### **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL			DOCL	JMENT N	UMBER			DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SAR	4	7	1	5	7	6	4	12-87	Hutchinson			·
SMA	4	8	5	1	1_1_	0	1	7-89	Hutchinson			
SM4	4	8	3	6	7	3	3	6-89	Hertel, et al.			
SMG	4	8	3	6	9	0	5	6-89	Davis, et al.	-		
SRIG	4	8	9	5	1	0	7	1-90	Yano, et al.		_	
Sima	4	9	o	2	9	3	4	2-90	Miyamura, et al.		_	
SML	4	9	0	3	9	3	7	2-90	Jakuniec, et al.	_	_	_
SWIS	4	9	0	9	6	9	5	3-90	Hurwitt, et al.	_		
SM4	4	9	1	1	5	9	7	3-90	Maydan, et al.	_		
Sma	4	9	1	5	5	6	4	4-90	Eror, et al.	_		
SM4	4	9	1	7	5	5	6	4-90	Stark, et al.	_	-	

#### **FOREIGN PATENT DOCUMENTS**

				DOCU	MENT N	UMBER			DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
	<u> </u>	<u> </u>		<b>.</b>				<u>, , , , , , , , , , , , , , , , , , , </u>	<u></u>				YES	NO
5m4			2	6	5	2	5	2	3-90	Japan			х	
SMG		6	4	1	2	0	3	7	1-89	Japan			x	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER Steve Gravini

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SHEET 3 OF 5

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ATTY. DOCKET NO.	SERIAL NO.
503.30414C14	09/461,432
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KAIU, et al.

GROUP FILING DATE December 16, 1999

3749

#### **U.S. PATENT DOCUMENTS** FILING DATE EXAMINER INITIAL DATE NAME CLASS SUBCLASS IF APPROPRIATE DOCUMENT NUMBER 0 7 8 1 4-91 Kawasaki, et al. 5 Sius 2 9 5 2 9 3 3 3-94 Maydan, et al. SWIL 5 2 6 4 5 1 9-95 Aylwin, et al. Sm5 SIME 5 5 0 4 0 3 3 4-96 Bajor, et al. 5 5 4 3 4 7 4-96 Jovanovic, et al. 0 SMG 9-96 6 7 1 4 Fukuyama, et 5 5 5 Smy 5 1 5 8 7-97 Lin 6 5 8 SMS 7 Aylwin, et al. 5 SML 5 6 4 6 1 10-97 Davies, et al. 5MG 4 3 1 3 7 8 3 2-82 SMS 7 7 4 3 1 8 6 3-82 Hijikata, et al. **FOREIGN PATENT DOCUMENTS** CLASS SUBCLASS TRANSLATION DATE COUNTRY **DOCUMENT NUMBER** YES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) **DATE CONSIDERED EXAMINER**

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503.30414C14

09/461,432

APPLICANT KATO, et al.

FILING DATE

December 16, 1999

GROUP

3749

#### **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL			DOCL	MENT N	UMBER			DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SMG	4	9_	2	4	8	9	0	5-90	Giles, et al.	134	902	
SMC	4	9	3	6	3	2	9	6-90	Michael, et al.	134	902	
SM4	5	0	1	4	2	1	7	5-91	Savage	364	550	
Sma	5	0	0	7	9	8	1	4-91	Kawasaki, et al.			
SML	4	1	3	8	3	0	6	2-79	Niwa	156	345	
Sonc	4	5	7	6	6	9	8	3-86	Gallagher, et al.	204	192	
SMC	5	0_	1	4	2	1	7	5-91	Savage	364	498	
SM4	5	3	5	1	4	1	5	10-94	Brooks, et al.	34	389	
Sma	4	6	4	3	6	2	9	2-87	Takahashi, et al.	414	331	
SMC	4	8	2	4	3	0	9	4-89	Kakehi, et al.	414	217	
SMK	4	9	5	1	6	0	1	8-90	Maydan, et al.	414	217X	

#### FOREIGN PATENT DOCUMENTS

				DOCL	MENT N	UMBER			DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
	1		***						·				YES	NO
SMS	2	0	3	8	1	3	3	8	5-90	Europe		_		<u> </u>
SMK		6	4	1	2	o	3	7	1-89	Japan	_	_		
SMG			4	3	0	5_	4	9	4-92	Japan	_	_		
SM4		8	7	0	7	3	0	9	5-87	PCT Int'l Appl.	_			
SMS			2	9	4	6	4	7	4-90	Japan	_	-		
SMG	6	0	2	4	6	6	3	5	12-85	Japan	_			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER INITIAL				DOCL	IMENT N	UMBER			DATE	NAME	CLASS	SUBCLASS	FILING D	
Sm4		5	5	0	9	7	7	1	4-96	Hiroki	414	217		
SML		5	4	6	2	3	9	7	10-95	lwabuchi	414	222		
SMS	ļ	5	6	8	5	6	8	4	11-97	Kato, et al.	414	217		
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				DOC	MENT N	UMBER			DATE	COUNTRY	CLASS	SUBCLASS	TRANSLA	ATION
			Τ_	Τ	T	Ι.	Τ_		10.00				YES	NO
SMC.	2	0	2	9	8	4	<b>8</b> 5	3	12-89 4-87	Japan Europe				
Sm4 Sm<	2		2	6	5	2	5	2	3-90	Japan	<del>-</del>	$\perp$		
			-				<u> </u>			June				
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**EXAMINER** 

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## PATENT AND TRADEMARK OFFICE

SERIAL NO. ATTY. DKT. NO. 503.30414C14

461 432

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**APPLICANT** KATO, et al.

**GROUP** 

(Use several sheets if necessary)

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3749

#### **U.S. PATENT DOCUMENTS**

Examine Initial	er	Document Number	Date	Name	Class	Subclass	Filing Date
SWG	AA	4,969,790	11/13/90	Petz et al.			10/24/88
	AB						
	AC						
	AD		•				P T C
	ΑE						43,
	AF						2.3
	AG						9/6
	AH						: : : : : : : : : : : : : : : : : : :
	ΑI				·		
	AJ						
	AK						
	AL						

#### FOREIGN PATENT DOCUMENTS

Examine Initial	xaminer Documer		Dete	Country	Class	Subclass	Translation	
Imiliai		Number	Date	Country	Class	Subclass	Yes	No
Sma	AM	2-61064	03/01/90	Japan		_		х
SMS	AN	1-310553	12/14/89	Japan		-		х
Surs	AO	1-251734	10/06/89	Japan		_		х
SANC	AP	62-44571	02/26/87	Japan		f		х
SMG	AQ	62-50463	03/05/87	Japan		-		х
51114	AR	2-106037	04/18/90	Japan				х
5#14	AS	57-29577	02/17/82	Japan		7		х
5114	AT	63-153270	06/25/88	Japan (w/complete translation)				х

#### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SMC	AU	Semiconductor Equipment Association of Japan, "Terminological Dictionary of Semiconductor Equipment), front, table, page 183, back, Nov. 20, 1987.				
5445	AV	Semiconductor Equipment Association of Japan, "Semiconductor News", Vol. 4, pp. 38-4: April 10, 1987 (w/translation).				
	AW					
	AX					
	AY					
	AZ					
Examine	er	Date Considered				

Steve Savini

3-14-00